

Title (en)  
APPARATUS FOR TREATING MOLTEN METAL

Publication  
**EP 0245601 A3 19880831 (EN)**

Application  
**EP 87103143 A 19870305**

Priority  
JP 4914686 A 19860305

Abstract (en)  
[origin: EP0245601A2] An apparatus for treating a molten metal comprises a vertical post (20), a treating container (10) disposed at one side of the post and having an opening (12) at its upper end for containing the molten metal, a horizontal suspending arm (30) mounted at its base end on the post upwardly and downwardly movably and rotatable in a horizontal plane, a vertical rotary shaft (40) suspended from the arm and having a treating gas channel (41) internally extending therethrough longitudinally, a bubble releasing-dispersing rotor (50) provided at the lower end of the rotary shaft and having in its bottom surface a treating gas outlet (51) in communication with the gas channel, the rotor being movable into and out of the container through the opening (12), and at least one baffle (60) suspended from the arm (30) and movable into and out of the container through the opening for preventing eddying and waving. When there arises a need to repair or replace the rotary shaft, the rotor and/or the baffle, or when the dross is to be removed from the surface of molten metal after the treatment, the rotor, the shaft and the baffle are brought out of the container by raising the suspending arm and are thereafter brought to a position away from immediately above the container by horizontally moving the arm.

IPC 1-7  
**C22B 9/05**; **C22B 21/06**

IPC 8 full level  
**C22B 9/05** (2006.01); **C22B 21/06** (2006.01); **C22B 26/22** (2006.01)

CPC (source: EP KR US)  
**C22B 9/05** (2013.01 - EP KR US); **C22B 21/064** (2013.01 - EP US)

Citation (search report)

- [X] AT 336900 B 19770525 - VMW RANSHOFEN BERNDORF AG [AT]
- [X] AT 330470 B 19760712 - VMW RANSHOFEN BERNDORF AG [AT]
- [X] EP 0183402 A2 19860604 - FOSECO INT [GB]
- [X] EP 0077282 A1 19830420 - PECHINEY ALUMINIUM [FR]
- [X] WO 8504675 A1 19851024 - PECHINEY ALUMINIUM [FR]
- [A] FR 2263308 A1 19751003 - COMBUSTIBLE NUCLEAIRE [FR]
- [A] DE 3405613 A1 19850822 - SIEMENS AG [DE]
- [A] EP 0142727 A1 19850529 - SHOWA ALUMINUM CORP [JP]

Cited by  
EP0753589A1; CN106395830A; EP0438004A1; FR2656001A1; EP0419378A1; FR2652018A1; WO9808990A1; WO9114009A1; WO0022179A1; WO2006021066A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0245601 A2 19871119**; **EP 0245601 A3 19880831**; **EP 0245601 B1 19911204**; AU 576444 B2 19880825; AU 6963087 A 19871029; CA 1315545 C 19930406; DE 3774926 D1 19920116; JP S62205235 A 19870909; JP S648056 B2 19890213; KR 870009039 A 19871022; KR 910001580 B1 19910316; NO 167519 B 19910805; NO 167519 C 19911113; NO 870893 D0 19870304; NO 870893 L 19870907; US 4804168 A 19890214

DOCDB simple family (application)  
**EP 87103143 A 19870305**; AU 6963087 A 19870303; CA 531085 A 19870304; DE 3774926 T 19870305; JP 4914686 A 19860305; KR 870001948 A 19870305; NO 870893 A 19870304; US 2188787 A 19870304